

AM/FM Stereo

In-Dash CD Player

with USB Port, SD/MMC Card Slot, RDS, Remote Control,
Aux In, and Recording Function



Bluetooth® HANDS-FREE

Requires
Bluetooth Phone.
Not included.



IPOD

SD

USB

CD

Aux Input

Keypad

Bluetooth



WMA

MP3

CD

CD-R

CD-RW

ID3

RDS



Elite

Professional Series

Welcome!

Dear Customer,

CONGRATULATIONS. The VR500CS-BT MP3/CD Player with AM/FM Receiver, USB Port and SD Card Slot, Electronic Anti-Shock (ESP) & Fold-down Detachable Face, when used as described, will give you years of dependable service in your car, truck, RV, or mini-van. We have taken numerous measures in quality control to ensure that your product arrives in top condition and will perform to your satisfaction. In the rare event that your VR500CS-BT MP3/CD Player with AM/FM Receiver, USB Port and SD Card Slot, Electronic Anti-Shock (ESP) & Fold-down Detachable Face, contains a damaged or missing item, does not perform as specified, requires warranty service, or you have an installation problem, **DO NOT RETURN THIS PRODUCT TO THE STORE. PLEASE CALL OUR TOLL FREE NUMBER FROM THE U.S.A. AND CANADA 1-800-445-1797** and ask to speak with a member of our technical service team; or submit your questions by e-mail to customerservice@vr-3.com and a member of our technical service team will respond by e-mail to your questions. Our in-house technical service team will expedite delivery of your part, advise you on installation, or help troubleshoot a problem with you. If your product needs warranty service, our technical service team representative will help you obtain the fastest remedy possible under the warranty.

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Precautions

- This unit will only play the following discs.
- This unit does not play files that have Digital Rights Management(DRM).
- If you have files that have Digital Rights Management(DRM) you should consult with the vendor that you purchased files from for instructions on proper use.

Type of disc	Label on the disc	Recorded material	Size of disc
CD, MP3, & WMA		Audio only	12 cm

- Do not attempt to modify the unit.
- Modifying the unit will void the warranty.
- Stop the vehicle before carrying out any operation that could interfere with your driving.
- Do not operate in extremely high or low temperatures. The temperature inside the vehicle should be between 32° F (0° C) and 100° F (37° C) before turning on your unit.

CARE OF DISCS

- Handle the disc by its edge to keep the disc clean. Do not touch the disc's surface.
- Do not use CDs with labels or stickers attached. The label may leave a sticky residue when it begins to peel.



- Do not use a CD with paste or ink residue on it.
- Clean the discs with an optional cleaning cloth. Wipe each disc from the center out.



FLASH MEMORY

The VR500CS-BT supports USB Flash Memory, Secure Digital Card (SD) and Multi Media Card (MMC) of up to 4GB of memory. We recommend you format your Flash Drive/SD Card in FAT32 format before saving any files. If you experience any compatibility problems, we recommend that you contact the manufacturer of the Flash Drive/SD Card/Multi Media Card.

Notes On Installation

- **Disconnect negative battery terminal before starting installation. Consult the vehicle's owner's manual for proper instruction.**
- **The unit is designed for a 12Volt DC negative ground operation system only. Before installing the unit, confirm that your vehicle is a 12Volt DC negative ground system.**
- **Be sure to connect the color coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage the vehicle's electrical system.**
- **Be sure to connect the negative (-) speaker leads to the negative (-) speaker terminal. Never connect negative (-) speaker leads to chassis ground.**
- **The unit is only designed for use with 4 speakers. Do not combine output for use with 2 speakers. Do not ground negative speaker leads to the chassis ground.**
- **Make sure all the connections are completely correct before turning on your unit.**
- **When replacing the fuse(s), the replacement must be of the same amperage as shown on the fuse holder.**
- **Do not block vents or heater panels. Blocking them will cause heat to build up inside and may result in fire.**
- **After completing the installation and before operating the unit, reconnect the battery. Then press the (RES) button with a pointed object, such as a ball-point pen to set the unit to its initial status.**

Tools For Installation

- The 2 removal keys are supplied for removing the old unit and replacing with the "VR500CS-BT".

The following tools and supplies may also be needed for the installation:

TOOLS

- Phillips Screw-drivers
- Wire Stripper
- Wire Cutter
- Hammer
- Pencil
- Electrical Tape
- Electric Drill

SUPPLIES

- Machine Screws
- Crimp Connectors
- 14 Gauge Wire for Power Connections
- 14-16 Gauge Speaker Wires

The above are NOT INCLUDED with the VR500CS-BT and must be purchased separately.

Before You Install

Automotive audio equipment installations can be challenging at times, even to the most experienced of installation technicians.

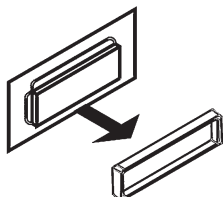
If you are not confident working with electrical wiring, removing and re-installing interior panels, carpeting, dashboards or other components of your vehicle, please call your dealer in order to have the unit professionally installed.

IMPORTANT!

BEFORE THE FINAL INSTALLATION OF THE HEAD UNIT, CONNECT THE WIRING TEMPORARILY, MAKING SURE THE UNIT AND THE SYSTEM WORK PROPERLY.

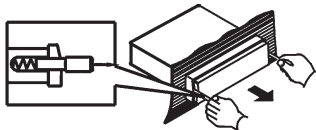
1. Remove the Old Unit from the Dashboard

- A. Remove the outer trim frame.



DIN Front Mount Style

- B. Insert the keys supplied with the old unit into both sides of the old unit as shown in figure below until they click. Push keys apart and pull to remove the old unit from the dashboard.



DO NOT DISCONNECT WIRES AT THIS TIME!

2. Mark Polarity of the Speaker Wires

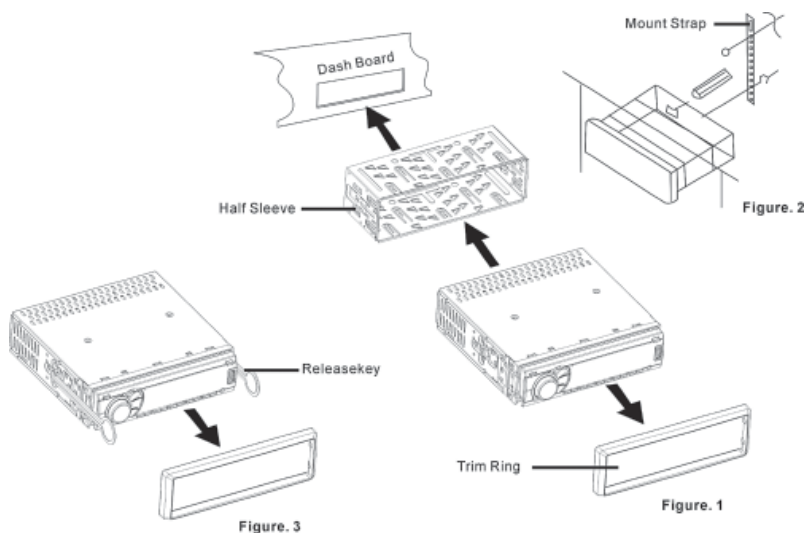
Marking the polarity of the speaker wires will make it easier to connect the existing speakers to the Head Unit.

Consult wiring diagram of existing head unit before disconnecting any wires. If a wiring diagram is not available contact the manufacturer.

- A. While the old unit is playing, disconnect the wires from one speaker.
- B. Take a length of masking tape and fold it around the wire so it forms a flag.
- C. On the masking tape mark the polarity of the speaker wires (+ & -), as well as left or right, and front or rear.
- D. Double check that you marked the first speaker correctly by checking that the speaker wires are the same at the head unit.
- E. Repeat this procedure for all of the speakers.
- F. Mark the power, ground, and any other wires also.

Installation

DIN FRONT-MOUNT (METHOD A)

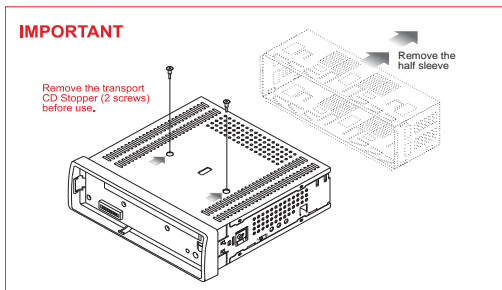


NOTE: Unit should be installed horizontally or less than a 30° angle.

1. Insert Half Sleeve into dash-board hole and bend mount tabs outwards to secure it.
2. If necessary, attach the mounting strap to the rear of the unit, then attach it with the supplied nut as in fig. 2.
3. Insert the unit into the Half Sleeve until you hear a click sound
4. Place Trim Ring over the unit and installation is completed
(Some vehicles may not need Trim Ring)

Un-installation (Figure 3)

1. Remove Trim Ring and insert Release Keys into left and right side-end holes as shown figure 3 and pull the unit out of the dash-board.

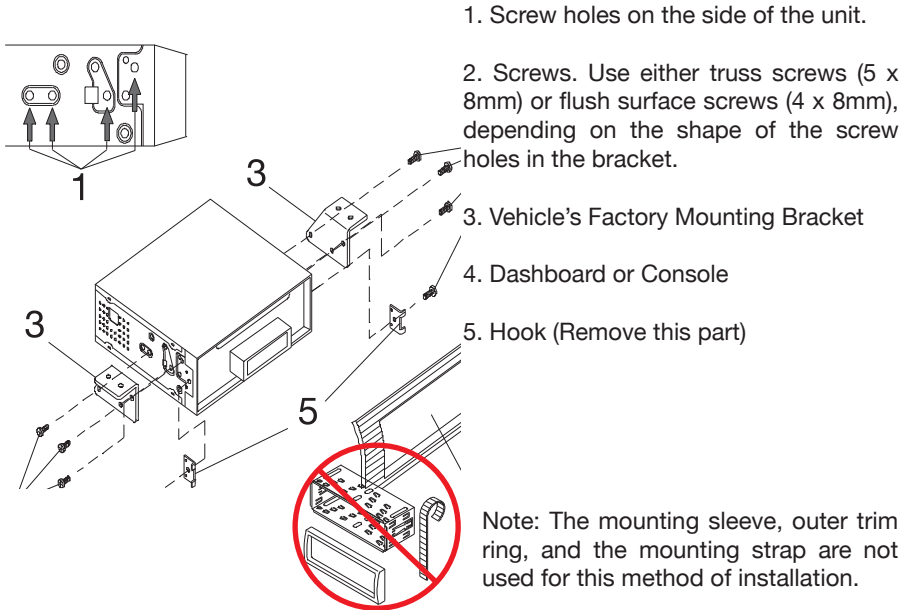


Remove the two transport screws from the top of the unit before installing.

Installation

DIN REAR-MOUNT (METHOD B)

Installation using the screw holes on both sides of the unit.



PARTS



- 2 Metal Keys
- 1 Hex Nut
- 1 Mounting Sleeve (not shown)
- 1 Lock Washer
- 4 Screws
- 1 Sheet Metal Screw

- 1 Metal Support Strap
- 1 Flat Washer
- 1 Rubber Mounting Bolt Cover
- 1 Faceplate Case
- 1 Remote Control
- 2 Wiring Harness (not shown)

Installation

BUILT-IN MICROPHONE

The built-in microphone is located on the front left side of the unit. There is no setup required for this microphone and it is tuned to pick-up the voices of the front and rear seat passengers.



GIVE US A CALL, WE'LL HELP YOU INSTALL.

PLEASE DO NOT RETURN PRODUCT TO STORE.

Visit us on the WEB

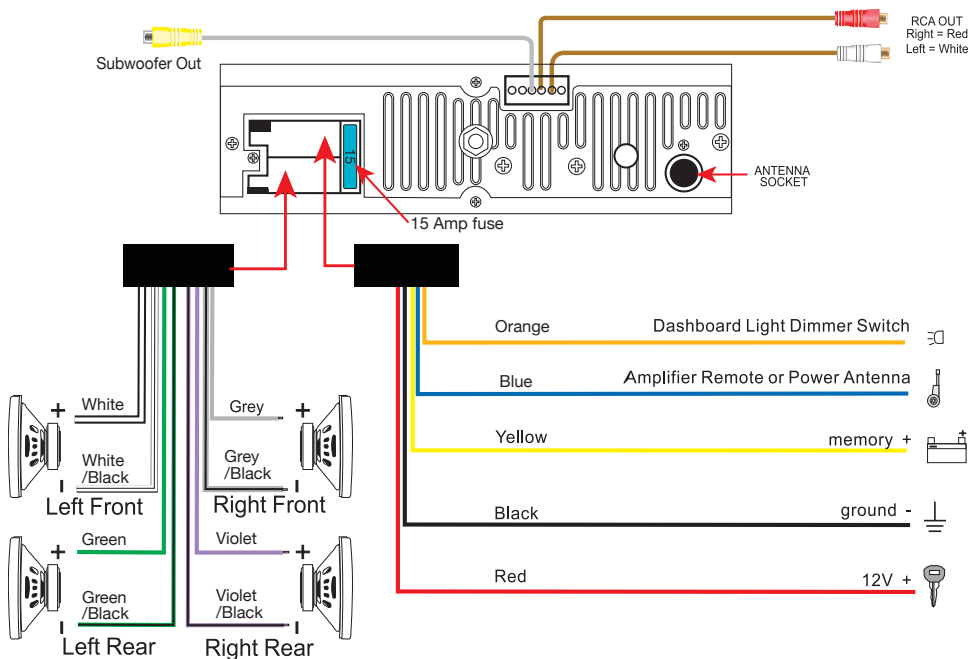
www.vr-3.com

For Information and Technical Assistance,
Call Toll-Free in U.S.A. and Canada.

1-800-445-1797

Wiring Connections

Make sure you have good chassis ground. A good ground connection will eliminate most electrical noise problems. A good chassis ground requires a tight connection to the vehicle's metal chassis. The area around the ground connection should be clean, bare metal without rust, paint, plastic, dust, or dirt for a good electrical connection.

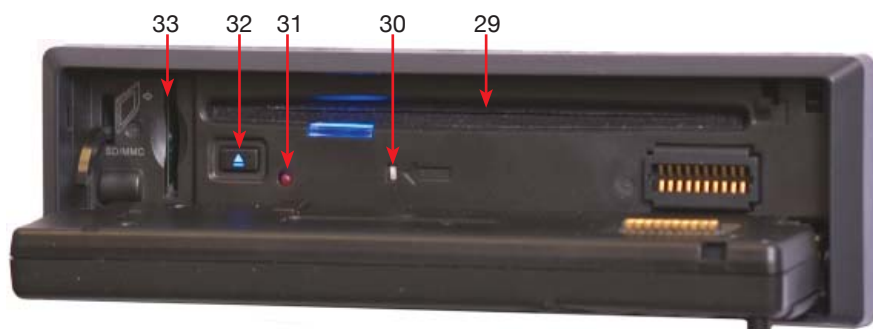
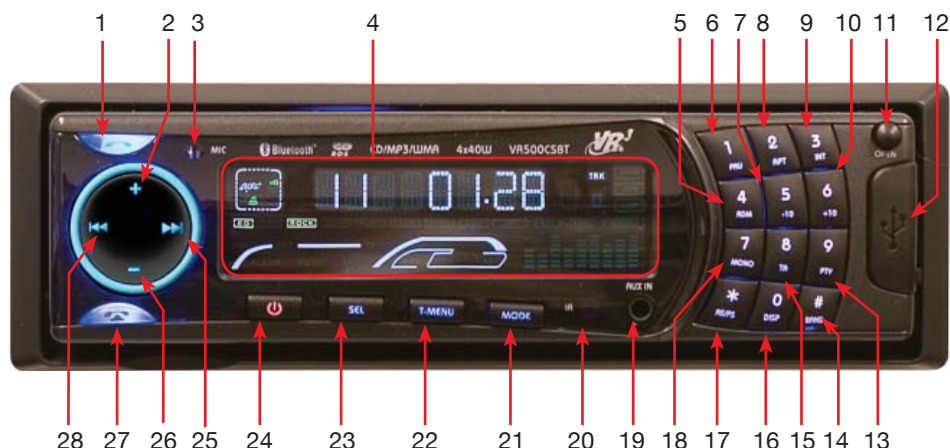



SPEAKER WIRING NOTES


Follow the above wiring diagram to install the head unit with new or existing speakers.

- This unit is designed for use with four (4) speakers with an impedance between 4 Ohms to 8 Ohms.
- An impedance load of less than 4 Ohms could damage the unit.
- Never bridge or combine the speaker wire outputs. When not using four speakers, use electrical tape to tape the ends of the unused speaker outputs to prevent a short circuit.
- Never ground the negative speaker terminals to chassis ground.

Location Of The Controls



1.  / SEND
2. VOLUME UP
3. MICROPHONE
4. LCD SCREEN
5. No. 4 / RANDOM
6. No. 1 / PAUSE
7. No. 5 / -10 TRACK DOWN
8. No. 2 / REPEAT
9. No. 3 / INTRO
10. No. 6 / +10 TRACK UP
11. OPEN FACEPLATE
12. USB SOCKET
13. No. 9 / PTY
14. #/BAND/SUBWOOFER
15. No. 8 / TA
16. No. 0/DISP
17. * / AS / PS

18. No. 7/MONO
19. AUX IN
20. INFRA RED WINDOW
21. MODE
22. T-MENU
23. SEL
24. POWER/MUTE
25. TRACK UP
26. VOLUME DOWN
27.  / CANCEL
28. TRACK DOWN
29. DISC SLOT
30. RESET
31. RED LED
32. DISC EJECT
33. SD / MMC CARD SLOT

Remote Control

OPERATING THE REMOTE CONTROL



Aim at the front panel of the CD Receiver.

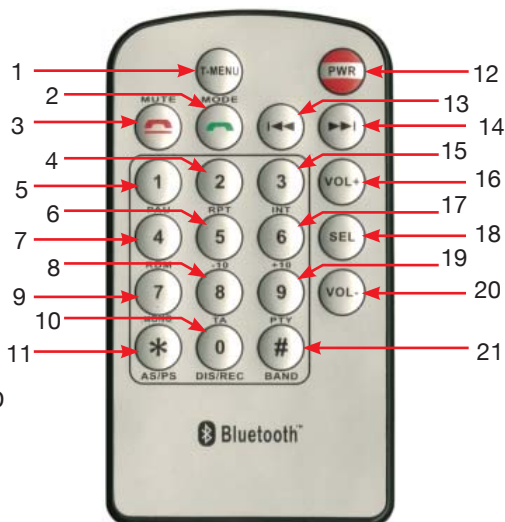
The maximum operating distance is about 6M.

Make sure that the signal path is not obstructed.

Do not drop or throw the remote control.

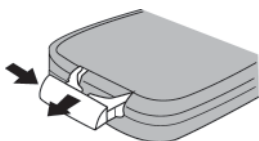
Do not expose the remote control to direct sunlight or place next to a heating unit or other heat source.

1. T-MENU
2.  / MODE/SEND
3.  /CANCEL/MUTE
4. NO. 2 / REPEAT
5. NO.1 / PAUSE
6. NO. 5 / DOWN 10
7. NO. 4 / RANDOM
8. NO. 8/ TA CONTROL
9. NO. 7/ MONO
10. NO. 0/ DISC / RECORD
11. ★ SYMBOL / AS/PS
12. POWER
13. PREVIOUS/FAST REVERSE
14. NEXT TRACK/FAST FORWARD
15. NO. 3 / INTRO
16. VOLUME UP
17. NO. 6/UP 10
18. SEL
19. NO. 9/PTY
20. VOLUME DOWN
21. # SYMBOL / BAND / SUBWOOFER

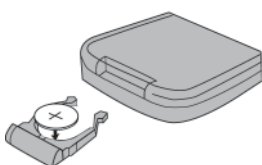


REPLACING THE BATTERY

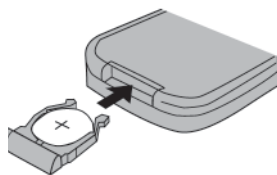
The VR500CS-BT Remote Control comes with a CR-2025 Lithium Battery included.



Remove the Battery Holder from the back of the Remote Control.



Insert a CR-2025 Lithium battery.



Insert the Battery Holder into the back of the Remote Control.

Basic Operation

1. TURNING THE UNIT ON / OFF

Press any Button to turn the unit ON. On the Faceplate, press and hold the POWER button for 2 seconds to turn the unit off. On the Remote Control press the Power button to turn the unit ON & OFF.

2. MODE BUTTON

On the faceplate or remote control press the Mode button.

TUNER > CD > SD/MMC* > USB* > AUX > TUNER

* available only if there is media device in SD/MMC, USB slot.

3. SEL BUTTON

There are 2 menus available through the SEL button, the Audio Characteristics menu and the Function menu.

Audio Characteristics

Press the SEL button once to enter the Select Audio Characteristics Menu, each press of the SEL button changes the audio characteristic to be adjusted as follows.



VOLUME > BASS > TREBEL > BALANCE > FADER > EXIT Menu

Use the Volume + / - buttons to adjust each Characteristic.

If you have selected a pre-set EQ setting, then the Bass and Treble chracteristics will not appear in the SEL menu.

Mute Control

On the faceplate press the Power button to mute the sound level. Press the Power Button again to cancel.

On the remote control press the  /CANCEL/MUTE button to mute the sound level. Press the  /CANCEL/MUTE button again to cancel.

If the unit is muted and you receive a phone call, the unit will automatically unmute itself when you answer the phone call.

Loudness Control

On the faceplate or remote control press and hold the SEL button. Then press the

SEL button 6 times and LOUD will appear on the LCD. Use the + button or - button to turn Loudness ON & OFF.

Subwoofer Control

Press and hold the # / BAND button for 2 seconds and SW will appear on the LCD to indicate the sub woofer output is ON. SW will disappear from the LCD to indicate the sub woofer output is OFF.

Dsp

Press and hold the SEL button for 2 seconds, then press the + or - button on the faceplate, or the VOL+ or VOL - button on the remote control to cycle through the EQ pre-sets.

None > Classic > Rock > Pop > Flat

Function Menu

Press and hold the SEL button to enter the Select Function menu, each press of the SEL button changes the function to be adjusted as follows.

INVOL > AM(12:00) > TAVOL > REC > TEL-VOL > DSP > LOUD OFF > LOC OFF > Exit Menu

Use the Volume + / - buttons to adjust each Function.

Invol

Sets the volume level for the unit when it's turned on.

AM(12:00) (Current Time)

Use the volume +/- buttons to set the time. The volume + button adjusts the hour. The Volume - button adjusts the minutes.

Tavol

Adjusts the volume Level of the Traffic Announcement.

Rec

Press volume +/- buttons to select the recording mode MP3-> WMA (note: when USB 1.1 recording select WMA format)

Basic Operation

Function Menu(cont.)

Telvol

In order to maintain the sound quality of phone calls, TELVOL is suggested to be below 35.

Telephone default volume is 25.

DSP

Enables Pre-set Equalizer settings.

Press Volume +/- buttons to choose a pre-set EQ.

None --> Classic --> Rock --> Pop --> Flat

Loud Off/On

Enables the Loudness function.

(Default is LOUD OFF)

Loc Off/On

Enables Local/Distant function of the radio.

(Default is LOC OFF)

4. TUNE OR TRACK (UP & DOWN)

◀◀ / ▶▶ / + / -

TUNE UP OR DOWN IN RADIO MODE

Manual Tuning Mode: Press and hold the ◀◀ button or ▶▶ Button for more than 2 seconds to enter Manual Tuning Mode, then press the ◀◀ / ▶▶ buttons to tune each frequency step upward or downward

SEEK TUNING MODE IN RADIO MODE

Press the ◀◀ button or ▶▶ Button to automatically search for the next strongest frequency

TRACK UP / FAST FORWARD or TRACK DOWN (FAST REVERSE) IN CD, SD-MMC OR USB MODE

Track Up + / Track Down -

Press the + button to move to the next track.

Press the - button to move to the previous track.

Track Fast Forward / Fast Reverse

Press the ◀◀ button **OR** the ▶▶ button more than 2 seconds to activate fast forward (▶▶) or fast reverse (◀◀) search in a track.



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Radio Operation

CHOOSE RADIO BAND

On the faceplate or remote control, press the # / Band Button to change the radio band.

The unit has five bands - three FM (FM1, FM2, and FM3) and two AM (AM1 and AM2) Band selects. Each of the five bands can store up to six preset stations, for a total of 30 preset memory stations.

RADIO TUNE/SEEK FUNCTION

In Radio Mode, press and hold the >>| or |<< Button, the word MANUAL will be shown on the LCD. Now you will be able to tune the radio frequency by AM10KHz / FM200KHz with each press of |<< or >>| button.

MONO/STEREO RECEPTION CONTROL

On the front panel or remote control, press the No. 7 / Mono button to toggle between mono reception or stereo reception. The display will show "MONO" or "STEREO".

Improvement of reception of distant stations can be done by selecting "MONO" operation which may cut down some reception noise. This feature is only available when in FM mode.

SAVE YOUR PRESET STATIONS

There are six numbered preset buttons which can store and recall stations for each band. While listening to a radio station that you would like to save as a pre-set, press and hold one of the buttons numbered 1-6 for 3 seconds. That button is now the pre-set button for that station.

5. AUTOMATIC STORE/PRESET SCAN

A. Automatic Scan & Store

While listening to the FM Radio, press and hold the ★ symbol / AS/PS Button for 2 seconds. The receiver will automatically scan and save stations to one of the FM Bands.

While listening to the AM Radio, press and hold the ★ symbol / AS/PS Button for 2 seconds. The receiver will automatically scan and save stations to one of the AM Bands.

B. Reset Automatic Scan & Store

Press and hold the ★ symbol / AS/PS button for 3 seconds and the receiver will scan the radio stations in your area, then save them over the current pre-sets.

C. Scan Saved Stations

Press the ★ symbol / AS/PS Button once to scan all stations saved to a band. In the FM Mode, all 3 FM Bands will be scanned. In the AM Mode both of the AM Bands will be scanned.

RDS OPERATION

RDS stands for Radio Data System and is used to send small amounts of digital information via conventional FM radio broadcasts. The RDS system standardizes several types of information transmitted such as time, track, artist information, and station identification.

Radio Operation

TA (TRAVEL ANNOUNCEMENT) / TP (TRAVEL PROGRAM IDENTIFICATION)

Enable or disable TA mode:
(Default is OFF)

1) Press TA button once to activate the Traffic Announcement function, Press the TA button again to turn off the TA function.

2) When the TA function is activated it will automatically search a station with TA information. If there is no TA information, it will automatically search for a station with TP information, if there is no TP information either, it will return to the previous station after searching.

3) When receiving a station with TP information but without TA information the TP icon will be lit and TA icon will blink; when receiving a station with TP and TA information, both TP and TA icons are on.

When the unit is in another mode, such as CD, SD, USB or AUX In, and TA information is received, it will automatically change to radio mode. After the TA is finished it will return to the previous mode.

The Buttons AS/PS / Preset [1-6] / PTY / MODE / 10+ / 10- and # / Band are locked. Press TA button once to ignore the received TA information, press TA button twice to turn off the function.

PTY (PROGRAM TYPE)

Enable or disable PTY search.
(Default is off)

Press PTY button to enable PTY Search. Press the ◀◀ or ▶▶ button to search for the last selected PTY program. Press and hold the PTY button to select the program type PTY will search for.

Press volume +/- buttons to select a Program Type (PTY). When selected the program type you want, press PTY button to search. Press PTY key to stop the PTY search. If PTY code is different or not available, LCD displays "NOT FND" PTY icon blinks, press PTY key to stop the PTY search.

AS (AUTO STORE) / PS (PRESET SCAN) / FILE SEARCH BUTTON

AS (Auto Store)

In tuner mode, Press the AS/PS button for longer than 2 seconds to store radio station's with the best reception to the preset buttons automatically.

PS (Preset Scan)

In tuner mode, Press this button to scan the preset memorized station, each preset scan for 5 seconds.

Press again to stop operation.

File Search

In CD, USB, or SD/MMC Card mode, press the AS/PS button to start a file search.

Press the button again and menu is changed to the following sequence.

File Number Search > File Name Search > ROOT > EXIT Search

(* Refer to File Management Operation for further detail)

/ BAND / SUBWOOFER

BAND (In Radio Mode only)

To change the Radio band:

Press the # / BAND / SUBWOOFER button to change the radio band in the following sequence:

FM1 > FM2 > FM3 > AM1 > AM2

To activate the subwoofer output:

Press and hold the # / BAND / SUBWOOFER button for 3 seconds to activate the subwoofer output. Press and hold it again for 3 seconds to turn it off.

The # / Band / Subwoofer button also activates the Search Modes and the Recording Functions.

Refer to File Management Operation for more details.

Bluetooth Operation

BLUETOOTH FEATURES

1. Bluetooth V2.0 EDR compliant
2. Supports HFP, A2DP, AVRCP.
3. Class 2, Up to 8 meters wireless digital connection.
4. ECHO cancellation with noise elimination
5. Last number redial
6. Display incoming number
7. Call list
8. A2DP (Advance Audio Distribution Profile)
A2DP is designed to transfer a uni-directional 2-channel stereo audio stream, like music from an MP3 player, to a headset or car radio. The cell phone paired with the VR500CS-BT must support the A2DP feature in order to stream music.

Operation:

Enter Bluetooth MP3 music playing program via a paired cell phone (no need to connect if the unit is already connected with phone) via play music.

Notice: Cell phone must support A2DP.

9. AVRCP

AVRCP is designed to provide a standard interface to control TVs, Hi-fi equipment, etc. It allows a single remote control (or other device) to control all of the A/V equipment to which a user has access. It may be used in concert with A2DP

When the music is playing, Press No. 1 / PAUSE button once to pause, press again to play. Press “track up” button to the next song, press “track down” button to the previous song.

10. Auto-connect



When power on, the last paired cell phone will be connected to the device via Bluetooth automatically, after searching about one minute, if the device can not find the paired phone, it will stop searching.


When in standby mode (unconnected), press the T-MENU button to activate auto-connect function and the device will search for the last paired phone.

PAIRING

Before Connecting

Turn the VR500CS-BT ON, then turn your cell phone's Bluetooth Function ON.

1. The VR500CSBT is always in pairing mode and the  icon will flash on the LCD. When the Bluetooth icon  is on the LCD:
Flash Slowly (1 per 5 seconds): Standby
Flash Fast (1 per second): Connecting
Always ON: Connected

2. Follow your cell phone's instructions for pairing, when searching for a new device, select “VR500CSBT”, enter the passcode “0000” and confirm. After pairing and connection is complete, the  icon stop flashing indicating that the Bluetooth function is active and ready to use.

NOTE: The 1st time you use Bluetooth, the unit needs to be paired with your cell phone.

BASIC TELEPHONE OPERATION

Answer a call:

Press the  /SEND button to answer a call.


Reject a call:

Press the  /CANCEL button to reject a call.


Hang up:

Press the  /CANCEL button to hang up during dialing or talking.

Dialing

Press the T-MENU button and the LCD will blink with a “—”, use the numbered buttons on the faceplate or remote control to input a phone number, then press the  button to dial the number.

Last Number Redial

Press and hold the T-MENU button to display “REDIAL” on the screen first, and then press the  /SEND button to redial the last number.

Call List

Press and hold the T-MENU button to display “REDIAL” on the screen first, and then press the volume +/- buttons to display all incoming and outgoing numbers. 20 numbers Maximum.

CD Operation

DISC SLOT

Press the OPEN button to open the face-plate, then insert a disc into the disc slot.

As the disc is read TOC READ will appear on the LCD, then the first track will start to play.

- If there is error, "CD ERROR" will be displayed on LCD. In order to avoid CD ERROR, please use good quality discs and keep the discs clean.

- Supported Disc Types: Audio CD/ CD-R/ CD-RW, MP3 / WMA.

- If a disc can not be inserted, there may be another disc inside the unit. Eject the disc in the unit, then insert the new disc.

DISC EJECT

Press the OPEN button to open the face-plate, then press the Eject button to eject the disc from the CD slot. If disc is not removed after ejecting, then the disc automatically re-loads without playing.

SELECTING TRACKS

On the Remote or Face Plate, press the >>| Button to advance CD to the next track. Track numbers will be shown on the display. Press and hold >>| Button to fast forward. Press the |<< Button to go to a previous track. Track numbers will be shown on the display. Press and hold the |<< Button to fast reverse. Disc will play normally when the >>| or |<< Button is released.

PLAY/PAUSE CD

On the Remote or Face Plate, press the No. 1 / PAU Button to pause the CD.

Press the button again to resume playback.

REPEAT

On the Remote or Face Plate, press the No. 2 / RPT Button to repeat the same track continuously. "RPT ON" will appear on the display. Press this button again to cancel the repeat function.

SCANNING TRACKS

On the Remote or Face Plate, press the No. 3 / INT Button to play the first 10 seconds of each

track. Press this button again to resume playback.

RANDOM

On the Remote or Face Plate, press the No. 4 / RDM Button to play all the tracks in random order. "RDM ON" will appear on the display. Press this button again to stop random play.

MP3/WMA on CD

INSERT/EJECT CD

Insert a disc with MP3 and/or WMA files into the CD slot with label side up. The word "TOC READ" will be displayed as the CD is loaded. The first file in the first folder will start to play, and any ID3 information will be displayed.

EJECT

Press the EJECT Button to eject the disc from the slot. If the disc is not removed from the slot within 5 seconds, it will automatically be loaded into the slot again. When the disc is ejected and removed, the unit will automatically switch to Radio Mode.

SELECTING TRACKS

On the Remote or Face Plate, press the >>| Button to advance CD to the next track. Track numbers will be shown on the display. Press and hold >>| to fast forward.

Press the |<< Button to go to a previous track. Track numbers will be shown on the display. Press and hold the |<< Button to fast reverse. Disc will play normally when the >>| or |<< Button is released.

PLAY/ PAUSE CD

On the Remote or Face Plate, press the No. 1 / PAU Button to pause the CD. Press this button again to resume playback.

INTRO

On the Remote or Face Plate, press the No. 3/INT Button to play the first 10 seconds of each track. Press this button again

CD Operation (Cont)

to resume playback.

back. Press the Button again to resume.

REPEAT

On the Remote or Face Plate, press the No. 2/RPT Button to repeat the same track continuously. "RPT" will appear on the display. Press this button again to stop repeating tracks

RANDOM

On the Remote or Face Plate, press the No. 4/RDM Button to play all the tracks in random order. "RDM" will appear on the display. Press this button again to stop random play.

UP 10

Press the No. 6/UP10 Button to advance 10 tracks at a time.

DN 10

Press the No. 5/DN10 Button to go back 10 tracks at a time.

USB & SD/MMC

USB FLASH MEMORY

To play MP3/WMA files from a USB flash memory, insert a USB flash memory into the USB port on the left side of the unit. The unit will start playing MP3/WMA files on the USB flash memory automatically. Or press the MODE Button to select USB after pressing POWER Button to turn on the unit.

SD/MMC

To play MP3/WMA files from a SD/MMC Card, insert a SD/MMC Card into the SD Card Slot on the left side of the unit. The unit will start playing MP3/WMA files on the SD/MMC Card memory automatically. Or press the MODE Button to select SD/MMC Card after pressing POWER Button to turn on the unit.

PAUSE/PLAY

Press the No. 1/PAU Button to pause play-

SELECTING TRACKS

If the MP3/WMA files are stored in folders on the USB drive or SD Card, the unit will start by playing the first song in the first folder.

After playing all the files sequentially in the first folder, the unit will play sequentially all of the files in the next folder. The unit will continue playing through all of the folders on the USB drive or SD Card in this manner. If the USB drive or SD Card has loose files and folders containing files, it will play the loose files sequentially, then it will play the files in the folders sequentially.

SCANNING TRACKS

On the Remote or Face Plate, press the 2/INT Button to play the first 10 seconds of each track. Press this button again to resume playback.

REPEAT

On the Remote or Face Plate, press the No. 2/RPT Button to repeat the same track continuously. "RPT ON" will appear on the display. Press this button again to stop repeating.

RANDOM

On the Remote or Face Plate, press the 4/RDM Button to play all the tracks in random order. "RDM ON" will appear on the display. Press this button again to stop random play.

+ 10

Press the No. 6/UP10 Button to advance 10 tracks at a time.

- 10

Press the No. 5/10DN Button to go back 10 tracks at a time.

USB/SD/MMC Card Operation

File Management

FILE / FOLDER SEARCH

In CD, USB, SD/MMC mode, press the ★/AS/PS button to enter search mode.

Below is toggle sequence of search modes.

File Number Search > File Name Search > Folder Search > Exit search mode

NOTE: Audio-CD Disc can only be searched with File Number Search

FILE NUMBER SEARCH

To start the File Number Search

1. Press the ★/AS/PS button and a 3 digit number "001" appears on the LCD and the digit on the right end is blinking.

2. Press the Volume - or Volume + button to input a number (from 0 to 9) of the track which you want to listen to, press SEL button will move to next digit.

When finished, press the #/BAND button to play the track.

FILE NAME SEARCH

1. Press the ★/AS/PS button twice and "A**" is shown on LCD, the letter "A" will be blinking.

2. Press the Volume - or Volume + button to input a Letter from A to Z or Numbers from 0 to 9, press the SEL button to move to the next digit.

3. Once you've entered up to 3 letters, press #/BAND button to search for files that contain those letters. Press the Volume - or Volume + button to show the next searched file.

If no file is found, "NO MATCH" is displayed on LCD with returning to initial input ready mode automatically.

Press #/BAND button to play after completing input.

FOLDER SEARCH

1. Press the ★/AS/PS button 3 times.

2. If there are folders on the CD, USB, or SD/MMC, the name of the first folder will appear on the LCD.

3. Press the Volume + button or Volume -

button to change the folder.

4. Press the #/Band button to select the folder shown on the LCD, and the first track in the folder will start to play.

RECORDING (ENCODING) FUNCTION

The Recording (Encoding) function records from the Tuner, CD, or AUX IN, directly to either a USB Flash Memory or SD/MMC Card.

NOTE: If there are no Memory Devices inserted, LCD display shows "NO MEDIA".

If there is not enough memory capacity "NO SPACE" will be displayed on the LCD and the recording will stop.

During recording a blinking "R" is displayed on LCD.

RECORDING FROM TUNER / AUX-IN

With a USB flash memory or SD/MMC card inserted into the unit.

1. Press and hold the 0/DISP button for more than 2 seconds and recording will start.

NOTE: If both the USB and SD memory are inserted into the unit at the same time, you must choose which memory to save the recording on, the "SD/MMC Card" or "USB Flash Storage Device" by pressing the No. 0/DISP button again.

2. Press the No. 0/DISP button for more than 2 seconds to stop the recording.

RECORDING FROM AN AUDIO CD

Press the No. 0/DISP button for more than 2 seconds and the unit asks for the location to record in the following sequence.

MMC ALL > USB ALL > MMC ONE > USB ONE > MMC ALL

MMC ALL: Record all tracks on the disc to SD/MMC Card.

USB ALL: Record all tracks on the disc to USB Storage Device.

MMC ONE: Record current track to SD/MMC Card.

USB ONE: Record current track to USB Storage Device.

To cancel recording, press the No. 0/DISP button for more than 2 seconds.

To start recording, press # / BAND button and press again to stop recording.

File Management

COPYING A MP3 FILE FROM A CD

When copying files from a MP3 CD you may only copy one file at a time.

1. Insert a CD with MP3 audio files into the disc slot.
2. Use the |<< button or the >>| button to start playing the file you wish to copy.
3. Press the No. 0/DISP button for more than 2 seconds and “COPY SD” or “COPY USB” will appear on the LCD. If both the USB and SD memory are inserted into the unit at the same time, you must choose which memory to save the recording on. Press the No. 0/DISP button again to change between “COPY SD” or “COPY USB”.
2. To start recording, press the #/BAND button and “COPY 00” will appear on the LCD. and USB. The “00” represents the percentage of the file copied.
3. To cancel copying a file, press the No. #/BAND.

4. The first file copied to a USB or SD memory will be given the name, “MUSIC01”, the second file saved will be named “MUSIC02”, and so on.
- NOTE: There is no sound heard during copy from MP3 file in a CD to Memory Device.

DELETING FILES

To delete a file in USB, SD/MMC mode, press the No. 0/DISP for more than 2 seconds and LCD display shows “DELETE”. Press the #/BAND button to delete, or press No. 0/DISP for more than 2 seconds to cancel deleting the file.

Below list shows the functions available for each mode.

MODE FUNCTION	TUNER	C D	SD/MMC	USB	AUX
REC MMC	YES	YES	NO	NO	YES
REC USB	YES	YES	NO	NO	YES
DELETE	NO	NO	YES	YES	NO

RCA Out, SUB Out & ID3 Tag

1. RCA OUTPUT

The RCA Output Jacks are on the back of the unit. (Refer to Wiring Diagram) This output is for connecting an amplifier, equalizer, or other audio component that requires a pre-amp out connection. (Red = Right, White = Left) Follow the manufacturers instructions for the audio component that you are connecting.

2. SUB WOOFER OUTPUT

The Sub Woofer Output Jack is on the back of the unit. (Refer to Wiring Diagram) This output is for connecting an amplifier, that requires a pre-amp out connection.

To use the Subwoofer Out Jack press #/BAND Button on the front panel, or press the #/BAND Button on the remote control to turn the Sub Woofer Jack ON or OFF.

The unit must have an external amplifier installed to drive the subwoofer.

Follow the manufacturers instructions for the audio component that you are connecting.

ID3 TAG & SCROLLING MODES

If an MP3 or WMA file has ID3 Tag information, it will be displayed on the LCD. ID3 information varies from file to file. If there is no ID3 Tag information, nothing will shown on LCD.

MAINTENANCE

CLEANING THE UNIT

Do not use any liquids to clean this unit.

Do not use petroleum distillates to clean this unit.

Use a clean, dry cloth to clean this unit.

REPLACING THE FUSE

Make sure the amperage matches the specified value when replacing the fuse(s). If the fuse is bad, check the power connection and replace the fuse with a new one. If the same problem occurs, this might indicate a malfunction within the unit.

WARNING

When replacing a fuse, do not use a fuse with a higher amperage rating than the fuse originally supplied with your unit, otherwise damage will result to your unit.

Specifications

GENERAL

Power Supply	DC 11 - 16 Volt
Fuse	15 Amps
Load Impedance	Compatible 4 to 8 Ohm Speakers
Dimensions	178mm (W)x 175mm(D)x 50mm(H)
Power Output	4 x 40W (Max)
Line Output	1.8 V (CD 1K 0dB VOL MAX)

FM TUNER

Frequency Range	87.5 - 107.9 MHZ
Usable Sensitivity	15 dBuV
Stereo Separation	28 dB

AM (MW) TUNER

Frequency Range	530 - 1710 KHz
Usable Sensitivity	30 dBuV

CD PLAYER

Distortion THD	< 0.5%
Signal-to-Noise Ratio	60 dB
Frequency Range	20 Hz - 20 KHz

PANEL SYSTEM

Anti-Theft Full Detachable with Flashing LED, Flip Down Front Panel, ISO Mount

PLAYBACK

- Decoding : MP3, WMA, OGG playback with ID3 Tag Display
- File and Folder Search
- CD Mechanism : Electronic Anti-shock (Audio 8 sec., MP3 100 sec.) Supports CD, CD-R, CD-RW, 12 Cm Disc
- USB Firmware Upgradable

TUNER

AM/FM RBDS Radio Receiver with 30(FM18,AM12) station memory, auto/ manual station store, preset scan, auto/ manual tuning

AUDIO

- DSP Sound Effect (None, Classic, Rock, Pop, Flat)
- 4x40W (Max) Amplifier, 2CH Stereo AUX-in, 2CH Stereo RCA Lineout



GIVE US A CALL, WE'LL HELP YOU INSTALL.

PLEASE DO NOT RETURN PRODUCT TO STORE.
Visit us on the WEB

www.vr-3.com

For Information and Technical Assistance,
Call Toll-Free in U.S.A. and Canada.

1-800-445-1797

Limited Warranty

VIRTUAL REALITY SOUND LABS® products are designed and manufactured to provide a high level of trouble-free performance. VIRTUAL REALITY SOUND LABS® warrants, to the original purchaser, that its products are free from defects in material and workmanship for 30 days from the date of original purchase. As part of our commitment to product excellence, VIRTUAL REALITY SOUND LABS® and/or its affiliates routinely improve the designs, materials or production methods of its existing products. Because it is impractical to publicize all changes in every product, we reserve the right to make such changes without notice.

CONDITIONS OF WARRANTY:

If during the 30 day warranty period your new product is found to be defective, VIRTUAL REALITY SOUND LABS® will repair such defect, or replace the product, without charge for parts or labor subject to the following conditions:

1. All repairs must be performed by VIRTUAL REALITY SOUND LABS® and/or its affiliates in Eatontown, New Jersey.
2. The equipment must not have been altered or been damaged through negligence, accident, or improper operation.
3. The replacement of parts are exempted from this warranty when replacement is necessary due to normal wear and tear.
4. All warranty claims must be accompanied by a copy of the sales receipt or bill of sale.
5. Repair or replacement parts supplied by VIRTUAL REALITY SOUND LABS® under this warranty are protected only for the unexpired portion of the original warranty.
6. In the case of car stereos, this warranty does not extend to the elimination of car static or motor noise; correction of antenna problems; costs incurred for the removal or reinstallation of the product; damage to tapes, speakers, accessories or car electrical systems.
7. VIRTUAL REALITY SOUND LABS® will not be responsible for any charge incurred for installation.

OWNER'S RESPONSIBILITIES:

VIRTUAL REALITY SOUND LABS® will make every effort to provide warranty service within a reasonable period of time.

SHOULD YOU HAVE ANY QUESTIONS ABOUT SERVICE RECEIVED, OR IF YOU WOULD LIKE ASSISTANCE IN OBTAINING SERVICE, PLEASE CALL TOLL FREE 1-800-445-1797, 8:30am - 4:30pm EST.

In order to provide you with the proper warranty service, we request that you adhere to the following procedure:

1. Include a copy of your sales receipt or bill of sale with your unit when it is returned for warranty service.
2. If it is necessary to return your product for service, please return it securely packed, preferably in the original shipping carton, and freight and insurance prepaid to the following address: VIRTUAL REALITY SOUND LABS, Service Department, 41 James Way, Eatontown, New Jersey 07724.
3. Please include a detailed explanation of the problem you are having.
4. If your product is found by VIRTUAL REALITY SOUND LABS® to have a defect in material or workmanship, within the warranty period, it will be repaired or replaced at no charge and returned to you prepaid. Where permitted by law VIRTUAL REALITY SOUND LABS® liability shall be limited to that set forth in this warranty. This warranty shall be the exclusive remedy of the purchaser.

VIRTUAL REALITY SOUND LABS® makes no other warranty of any kind, expressed or implied; and all implied warranties, are hereby disclaimed by VIRTUAL REALITY SOUND LABS® and excluded from this warranty, VIRTUAL REALITY SOUND LABS® and/or its affiliates, the manufacturer, distributor and seller shall not be liable for any injury, loss or damage, incidental or consequential, arising out of the use or intended use of the product.

